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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/713,354	10/713,354 11/17/2003		Satoshi Tange	023971-0341	3155		
22428	7590	06/15/2006		EXAM	EXAMINER		
		RDNER LLP	BEHNCKE, C	BEHNCKE, CHRISTINE M			
SUITE 500 3000 K ST		v	ART UNIT	PAPER NUMBER			
WASHING	GTON, D	C 20007	3661				
				DATE MAILED: 06/15/200	DATE MAILED: 06/15/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	plication No. Applicant(s)						
Office Action Summary			54	TANGE ET AL.	TANGE ET AL.				
			r	Art Unit					
			M. Behncke	3661					
Period fo	The MAILING DATE of this communicati r Reply	on appears on th	e cover sheet with t	he correspondence ad	idress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠	Responsive to communication(s) filed or	n 17 November 2	2003.						
· —	_	This action is							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖂	4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
·	Claim(s) 1-12 is/are rejected.								
-									
	<u> </u>								
Application Papers									
	•	raminor							
9) The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119									
-	_								
a)[12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO r No(s)/Mail Date <u>11/17/03, 8/13/04</u> .			nary (PTO-413) ail Date nal Patent Application (PT	O-152)				

DETAILED ACTION

This office action is in response to the application filed 17 November 2003, in which claims 1-12 were presented for examination.

Specification

The disclosure is objected to because of the following informalities: a typographical error is found through out the specification: "bake fluid" is disclosed, however it is assumed the specification should read --brake fluid--. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The independent claims describe detecting a running land of a vehicle, judging whether the vehicle has a tendency to deviate from a running lane based on the detected running lane and a detected running condition; and generating a yaw moment in the direction to prevent the vehicle from deviating from the running lane when the

vehicle is judged to have a tendency to deviate; wherein the detecting of the running lane is based on a variation in the running direction of the vehicle due to the yaw moment. It is not made clear in the written description how the running lane is detected based on a variation in the running direction due to the yaw moment generated to prevent the vehicle from deviating from the running lane. The claims detail a circular logic that is not enabled by the specification. For example, figure 2 is a flow chart of the information processing executed by the control unit, however after the target yaw moment is calculated in S10 there is no feedback for the yaw moment to influence the lane detection shown. It is not clear based on the written description how a lane is being detected based on a variation in a running direction due to a generated yaw moment, when the yaw moment is only generated when a lane detecting device detects a running lane of a vehicle.

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Claims 1-12 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for detecting a running lane and a running condition of a vehicle, judging whether the vehicle has a tendency to deviate from the running lane, and controlling a behavior of the vehicle to generate a yaw moment in the direction to prevent the deviation from the running lane in accordance with the detected running condition, does not reasonably provide enablement for detecting the running lane based on a variation in a running direction of the vehicle due to the generated yaw moment. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims. The claims detail a circular logic that is not enabled by the

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specification. It is not clear based on the written description how a lane is being detected based on a variation in a running direction due to a generated yaw moment, when the yaw moment is only generated when a lane detecting device detects a running lane of a vehicle.

Conclusion

While no rejection based on prior art has been made in the present office action, for purposes of furthering prosecution Applicant is encouraged to consider the following pertinent prior art made of record:

US Patent No. 6,718,241

US Patent No. 6,622,076

US Patent No. 6,473,678

US Patent Application Publication No. 2004/0262063.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine M. Behncke whose telephone number is (571) 272-8103. The examiner can normally be reached on Monday - Friday 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

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06-09-2006

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